## Bruhat Bangalore Mahanagara Palike
## Excecutive Engineer, Project Division,Yelahanka

**Name of Work: Providing new borewells and CC Roads, drains development in Nagawara Colony, Behind Pruthvi Theatre in Ward.no.06,Thanisandra**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | **Est Cost:** | **99.00 Lakhs** |
| **Sl No** | **Description of Items** | **No** | **Length** | **Width** | **Depth** | **Quantity** | **Unit** | **Rate** | **Amount** |
| 1 | Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(Sl no.13.04) PRED.SR 2019-20** | | | | | | | | |
| | **Basic Rate** | 3768.00 | | | | | | | |
| | Area Weightage 3% | 113.04 | | | | | | | |
| | Total | 3881.04 | | | | | | | |
| | | 2 | | | | **2.00** | Each | 3881.04 | **7762.08** |
| 2 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Sl **no. 13.01 PRED SR 2019-20** | | | | | | | | |
| | **Basic Rate** | 347 | | | | | | | |
| | Area Weightage 3% | 10.41 | | | | | | | |
| | Total | 357.41 | | | | | | | |
| | 0 to 50 m | 2 | 50.00 | | | **100.00** | m | 357.41 | **35741.00** |
| | **Basic Rate** | 442 | | | | | | | |
| | Area Weightage 3% | 13.26 | | | | | | | |
| | Total | 455.26 | | | | | | | |
| | 50 to 100 m | 2 | 50.00 | | | **100.00** | m | 455.26 | **45526.00** |
| | **Basic Rate** | 456 | | | | | | | |
| | Area Weightage 3% | 13.68 | | | | | | | |
| | Total | 469.68 | | | | | | | |
| | 100 to 150 m | 2 | 50.00 | | | **100.00** | m | 469.68 | **46968.00** |
| | **Basic Rate** | 536 | | | | | | | |
| | Area Weightage 3% | 16.08 | | | | | | | |
| | Total | 552.08 | | | | | | | |
| | 150 to 200 m | 2 | 50.00 | | | **100.00** | m | 552.08 | **55208.00** |
| | **Basic Rate** | 634 | | | | | | | |
| | Area Weightage 3% | 19.02 | | | | | | | |
| | Total | 653.02 | | | | | | | |
| | 200 to 250 m | 2 | 50.00 | | | **100.00** | m | 653.02 | **65302.00** |
| | **Basic Rate** | 700 | | | | | | | |
| | Area Weightage 3% | 21 | | | | | | | |
| | Total | 721 | | | | | | | |
| | 251 to 300 m | 2 | 50.00 | | | **100.00** | m | 721.00 | **72100.00** |
| | **Basic Rate** | 825 | | | | | | | |
| | Area Weightage 3% | 24.75 | | | | | | | |
| | Total | 849.75 | | | | | | | |
| | 300 to 350 m | 2 | 50.00 | | | **100.00** | m | 849.75 | **84975.00** |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 3 | Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84** | | | | | | | | |
| | | 2 | 54.00 | | | **108.00** | Rmtr | 1325.00 | **143100.00** |
| 4 | Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 250mm dias. (Page No. 88 Item No. 12.116.5) PWD SR 2018-19 | | | | | | | | |
| | **Basic Rate** | 2075 | | | | | | | |
| | Area Weightage 6% | 124.5 | | | | | | | |
| | Total | 2199.5 | | | | | | | |
| | | 2 | 12.00 | | | **24.00** | Rmtr | 2199.50 | **52788.00** |
| 5 | Providing 175mm dia ms casing cap **page no III it no 85 pred 12-13 sr** | | | | | | | | |
| | | 2 | | | | **2.00** | no | 100.00 | **200.00** |
| 6 | Providing MS Casing pipe collars **page no III it no 86 pred 12-13 sr** | | | | | | | | |
| | | 2 | 10.00 | | | **20.00** | no | 150.00 | **3000.00** |
| 7 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta**/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO **XLII** | | | | | | | | |
| | **17.5 HP 30 Stage** | 2 | | | | 2.00 | | | |
| | | | | | | **2.00** | Unit | 72126.00 | **144252.00** |
| 8 | KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt ) B class **50 mm dia** nominal bore with all fittings ( earth work in trenches to be measured and paid for separately ) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. **(Page 92 ITEM NO 13.6 )** | | | | | | | | |
| | Basic rate | 512.00 | | | | | | | |
| | 6% AW | 30.72 | | | | | | | |
| | Sub Total | 542.72 | | | | | | | |
| | | 2 | 280.00 | | | **560.00** | Mtr | 542.72 | **303923.20** |
| 9 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A **P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15** | | | | | | | | |
| | | 2 | 600.00 | | | **1200.00** | Mtr | 188.70 | **226440.00** |
| 10 | Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15** | | | | | | | | |
| | | 2 | 50.00 | | | **100** | No | 88.00 | **8800.00** |
| 11 | Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary o**n fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 20x20x2.5 | 2 | | | | **2** | Each | 302.00 | **604.00** |
| 12 | Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.**P No.55/ I No.7.4.4 ( 4 core 16 Sqmm) KPWD Electrical SR 2014-15** | | | | | | | | |
| | | 2 | 25.00 | | | **50.00** | Mtr | 140.40 | **7020.00** |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 13 | Labour charges for laying of 1.1 K.V class UG cable, **P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15** | | | | | | | | |
| | | 2 | 25.00 | | | **50.00** | Mtr | 10.80 | **540.00** |
| 14 | Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete**P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15** | | | | | | | | |
| | For Cutting Road Surface aspalt | 2 | 35.00 | | | **70.00** | Mtr | 117.00 | **8190.00** |
| 15 | Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 40mm dia GI pipe | 2 | 4.00 | | | **8.00** | Mtr | 345.00 | **2760.00** |
| 16 | Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 16Sqmm | 2 | | | | **2.00** | NO | 280.00 | **560.00** |
| 17 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15** | | | | | | | | |
| | | 2 | | | | **2** | NO | 2727.00 | **5454.00** |
| 18 | Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No44/I No 6.7.4 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 100 Amps | | | | | | | | |
| | | 2 | 3 | | | **6** | Each | 360.00 | **2160.00** |
| 19 | Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... **P No62 I No 7.14.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 25mm dia | | | | | | | | |
| | | | | | | | | | |
| | | 2 | 6 | | | **12** | Each | 86.00 | **1032.00** |
| 20 | Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15** | | | | | | | | |
| | | 2 | | | | **2** | Each | 1547.00 | **3094.00** |
| 21 | Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 16SWG | 4 | 220.00 | 60.00 | | 52800.0 | | | |
| | | 2 | 450.00 | 25.00 | | 22500.0 | | | |
| | | | | | | **75300.0** | Sq.Cm | 0.33 | **24849.00** |
| 22 | KSRB 13-7.1-4: Providing and fixing in position 65mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No.90 Item No. 13.56 / PWD SR 2018-19** | | | | | | | | |
| | Basic rate | 1728.00 | | | | | | | |
| | 6% AW | 103.68 | | | | | | | |
| | Sub Total | 1831.68 | | | | | | | |
| | | 2 | | | | **2** | NOS | 1831.68 | **3663.36** |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 23 | Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No.92/ I. No. 13.81.3 PWD SR 2018-19** | | | | | | | | |
| | Basic rate | 210.00 | | | | | | | |
| | 6% AW | 12.60 | | | | | | | |
| | Sub Total | 222.60 | | | | | | | |
| | 50mm dia | 2 | 2.00 | | | **4** | NOS | 222.60 | **890.40** |
| 24 | Gate value 65mm nominal bore gun metal **P. No.XXVI sl No. 662 PWD SR** | | | | | | | | |
| | 65mm dia | 2 | 2.00 | | | **4** | NOS | 1694.92 | **6779.68** |
| 28 | Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter** | | | | | | | | |
| | | 2 | | | | **2** | NO | 10000.00 | **20000.00** |
| 29 | Earth work excavation By Manuall Means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in Soft rock/ ordinary rock not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications. (P.No.6, I.No.2.3) PWD SR 2018-19 | | | | | | | | |
| | Basic rate | 299.00 | | | | | | | |
| | 6% AW | 17.94 | | | | | | | |
| | Sub Total | 316.94 | | | | | | | |
| | | 2 | 150.00 | 0.60 | 0.90 | 162.00 | | | |
| | | | | | | **162.00** | **cum** | 316.94 | **51344.00** |
| 30 | Filling the Foundation Trenches using approved Sand as per Drawing & Technical Specification in 250mm layers, Whereever necessary watering and ramming including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications Morth Chapter 12. (P.No.221, I.No.27.14) PWD SR 2018-19 | | | | | | | | |
| | Basic rate | 3039.00 | | | | | | | |
| | 6% AW | 182.34 | | | | | | | |
| | Sub Total | 3221.34 | | | | | | | |
| | | 2 | 150.00 | 0.60 | 0.25 | 45.00 | | | |
| | | | | | | **45.00** | **cum** | 3221.34 | **144960.00** |
| 31 | KSRB13-9.3 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.2 / 13.9 (Page no.94, Item No.13.73.2) PWD SR 2018-19 | | | | | | | | |
| | | 2 | 150.00 | | | 300.00 | | | |
| | Basic rate | 372.00 | | | | | | | |
| | 6% AW | 22.32 | | | | **300.00** | Rmtr | 394.32 | **118296.00** |
| | Sub Total | 394.32 | | | | | | | |
| 32 | KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. ( Page No.7, Item No. 2.11) PWD SR 2018-19 | | | | | | | | |
| | Basic rate | 121.00 | | | | | | | |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | 6% AW | 7.26 | | | | | | | |
| | Sub Total | 128.26 | | | | | | | |
| | From Pipe line excavation | | | | | 162.00 | | | |
| | Deduct from item no. 30 | | | | | -45.00 | | | |
| | Deduct from item no. 33 | | | | | -18.00 | | | |
| | Deduct from item no. 34 | | | | | -27.00 | | | |
| | | | | | | **72.00** | cum | 128.26 | **9235.00** |
| 33 | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:4:8 with OPC @180kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum,machine mixed, concrete laid in layers not exceeding 15cm thick,well compacted in foundation including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-13,I No-4.3) | | | | | | | | |
| | Basic rate | 5102.00 | | | | | | | |
| | 6% AW | 306.12 | | | | | | | |
| | Sub Total | 5408.12 | | | | | | | |
| | From Pipe line excavation | 2 | 150.00 | 0.60 | 0.10 | 18.00 | | | |
| | | | | | | **18.00** | cum | 5408.12 | **97346.00** |
| 34 | KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6) | | | | | | | | |
| | Basic rate | 5442.00 | | | | | | | |
| | 6% AW | 326.52 | | | | | | | |
| | Sub Total | 5768.52 | | | | | | | |
| | From Pipe line excavation | **2.00** | 150.00 | 0.60 | 0.15 | 27.00 | | | |
| | | | | | | **27.00** | cum | 5768.52 | **155750.00** |
| 35 | BESCOM Deposit | L/S | 2 | | | | **2** | **13000.00** | **26000.00** |
| 36 | KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1)10km lead | | | | | | | | |
| | Basic rate | 130.00 | | | | | | | |
| | 6% AW | 7.80 | | | | | | | |
| | **Sub Total** | **137.80** | | | | | | | |
| | 10Km lead & Lift= 57+(2*1.28*10) | 82.60 | | | | | | | |
| | **Total** | **220.40** | | | | | | | |
| | **SSM Drain** | | | | | | | | |
| | | 1 | 235.00 | 0.60 | 0.75 | 105.75 | | | |
| | | 1 | 91.00 | 1.50 | 1.00 | 136.50 | | | |
| | **RCC Drain** | | | | | | | | |
| | | 1 | 125.00 | 0.75 | 0.90 | 84.38 | | | |
| | | 1 | 87.30 | 0.75 | 0.90 | 58.93 | | | |
| | | 1 | 140.00 | 0.75 | 0.90 | 94.50 | | | |
| | **Culverts** | | | | | | | | |
| | | 10 | 6.00 | 1.80 | 1.10 | 118.80 | | | |
| | | | | | | **598.85** | **Cum** | **220.40** | **131987.09** |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 37 | KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18) | | | | | | | | |
| | Basic rate | 5115.00 | | | | | | | |
| | 6% AW | 306.90 | | | | | | | |
| | **Sub Total** | **5421.90** | | | | | | | |
| | **Culverts** | 10 | 6.00 | 1.80 | 0.15 | 16.20 | | | |
| | **SSM Drain Bottom** | | | | | | | | |
| | | 1 | 91.00 | 1.80 | 0.15 | 24.57 | | | |
| | | | | | | **40.77** | **Cum** | **5421.90** | **221050.86** |
| 38 | Providing and constructing granite / trap / basalt **size stone masonry** in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13, cement mortar 1:6 ( I No-34.8.2,P No-255) | | | | | | | | |
| | Basic rate | 4596.00 | | | | | | | |
| | 6% AW | 275.76 | | | | | | | |
| | Sub Total | 4871.76 | | | | | | | |
| | **Culverts** | 20 | 6.00 | 0.60 | 0.80 | 57.60 | | | |
| | **SSM Drain** | 2 | 91.00 | 0.45 | 0.80 | 65.52 | | | |
| | **SSM Drain Raising Coarse** | 2 | 235.00 | 0.45 | 0.20 | 42.30 | | | |
| | | | | | | **165.42** | **Cum** | **4871.76** | **805886.54** |
| 39 | Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19) | | | | | | | | |
| | Basic rate | 5155.00 | | | | | | | |
| | 6% AW | 309.30 | | | | | | | |
| | Sub Total | 5464.30 | | | | | | | |
| | **For R.C.C Drain Bed concrete** | | | | | | | | |
| | | 1 | 125.00 | 0.60 | 0.15 | 11.25 | | | |
| | | 1 | 87.30 | 0.60 | 0.15 | 7.86 | | | |
| | | 1 | 140.00 | 0.60 | 0.15 | 12.60 | | | |
| | **For R.C.C Drain Wall concrete** | | | | | | | | |
| | | 2 | 125.00 | 0.15 | 0.75 | 28.13 | | | |
| | | 2 | 87.30 | 0.15 | 0.75 | 19.64 | | | |
| | | 2 | 140.00 | 0.15 | 0.75 | 31.50 | | | |
| | **For SSM Course P.C.C** | | | | | | | | |
| | | 2 | 235.00 | 0.45 | 0.15 | 31.73 | | | |
| | | 2 | 91.00 | 0.45 | 0.15 | 12.29 | | | |
| | **For SSM Course Coping** | | | | | | | | |
| | | 2 | 235.00 | 0.45 | 0.075 | 15.86 | | | |
| | | 2 | 91.00 | 0.45 | 0.075 | 6.14 | | | |
| | **For Kerb Stone below** | | | | | | | | |
| | | 1 | 235.00 | 0.20 | 0.10 | 4.70 | | | |
| | | 1 | 125.00 | 0.20 | 0.10 | 2.50 | | | |
| | | 1 | 87.30 | 0.20 | 0.10 | 1.75 | | | |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 140.00 | 0.20 | 0.10 | 2.80 | | | |
| | **SSM bed concrete** | | | | | | | | |
| | | 1 | 91.00 | 0.60 | 0.15 | 8.19 | | | |
| | | 1 | 235.00 | 0.60 | 0.15 | 21.15 | | | |
| | | | | | | | | | |
| | **Culverts coping** | 20 | 6.00 | 0.60 | 0.15 | 10.80 | | | |
| | **Culverts bed** | 10 | 6.00 | 1.50 | 0.15 | 13.50 | | | |
| | **Culvert Ramps** | 20 | 6.00 | 0.50 | 0.15 | 9.00 | | | |
| | | | | | | **251.38** | **Cum** | **5464.30** | **1373591.14** |
| 40 | Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge | | | | | | | | |
| | **Data rate** | **5418.00** | | | | | | | |
| | For Culvert | 10 | 6.00 | 1.50 | | 90.00 | | | |
| | | | | | | **90.00** | **Sqm** | **5418.00** | **487620.00** |
| 41 | Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19) | | | | | | | | |
| | Basic rate | 408.00 | | | | | | | |
| | 6% AW | 24.48 | | | | | | | |
| | Sub Total | 432.48 | | | | | | | |
| | For RCC Drain | 1 | 235.00 | | | 235.00 | | | |
| | | 1 | 125.00 | | | 125.00 | | | |
| | | 1 | 87.30 | | | 87.30 | | | |
| | | 1 | 140.00 | | | 140.00 | | | |
| | | | | | | 587.30 | **Mtr** | | |
| | | | | **/0.45** | | **1305.00** | **Nos** | **432.48** | **564386.40** |
| 42 | Painting two coats after filling the surface with **synthetic enamel paint** in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6.pg no:180 Item no:24.1 | | | | | | | | |
| | Basic rate | 80.00 | | | | | | | |
| | 6% AW | 4.80 | | | | | | | |
| | Sub Total | 84.80 | | | | | | | |
| | **For Kerb Stone** | | | | | | | | |
| | | 1 | 235.00 | | 0.40 | 94.00 | | | |
| | | 1 | 125.00 | | 0.40 | 50.00 | | | |
| | | 1 | 87.30 | | 0.40 | 34.92 | | | |
| | | 1 | 140.00 | | 0.40 | 56.00 | | | |
| | | | | | | **144.00** | **Sqm** | **84.80** | **12,211.20** |
| 43 | Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate) | | | | | | | | |
| | **Data rate** | **2337.00** | | | | | | | |
| | **CC Drain Top Covering Slab** | | | | | | | | |
| | For SSM Drain | 1 | 235.00 | 1.50 | | 352.50 | | | |
| | | 1 | 91.00 | 1.50 | | 136.50 | | | |
| | For RCC Drain | 1 | 140.00 | 0.75 | | 105.00 | | | |
| | | | | | | **594.00** | | | |
| | | | | | | **594.00** | **Sqm** | **2337.00** | **1388178.00** |
| 44 | **Providing granite slabs** of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19 | | | | | | | | |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic rate | 912.00 | | | | | | | |
| | 6% AW | 54.72 | | | | | | | |
| | Sub Total | 966.72 | | | | | | | |
| | For RCC Drain | 1 | 125.00 | 0.75 | | 93.75 | | | |
| | | 1 | 87.30 | 0.75 | | 65.48 | | | |
| | | | | | | **93.75** | **Sqm** | **966.72** | **90,630.00** |
| 45 | KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19) | | | | | | | | |
| | Basic rate | 69804.00 | | | | | | | |
| | 6% AW | 4188.24 | | | | | | | |
| | Sub Total | 73992.24 | | | | | | | |
| | Considering steel For Drain @ 65 kg / cum | | 111.0 | 0.065 | - | 7.21 | | | |
| | | | | | | **7.21** | Tonne | 73992.24 | **533731.00** |
| 46 | KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.( I No-18.47,P No-140) Loading and unloading with 10km lead | | | | | | | | |
| | Basic rate | 899.00 | | | | | | | |
| | 6% AW | 53.94 | | | | | | | |
| | Sub Total | 952.94 | | | | | | | |
| | 10Km lead & Lift= (2*1.28*8) | 25.60 | | | | | | | |
| | **Total** | **978.54** | | | | | | | |
| | | 1 | 20.00 | 5.00 | 0.25 | 25.00 | | | |
| | | 1 | 110.00 | 4.50 | 0.25 | 123.75 | | | |
| | | 1 | 18.00 | 4.50 | 0.25 | 20.25 | | | |
| | | | | | | **169.00** | **Cum** | **978.54** | **165373.26** |
| 47 | KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead ( I No-19.14,P No-143) | | | | | | | | |
| | Basic rate | 41.00 | | | | | | | |
| | 6% AW | 2.46 | | | | | | | |
| | Sub Total | 43.46 | | | | | | | |
| | 10Km lead= (2*1.28*10) | 25.60 | | | | | | | |
| | **Total** | **69.06** | | | | | | | |
| | | 1 | 20.00 | 5.00 | 0.20 | 20.00 | | | |
| | | 1 | 110.00 | 4.50 | 0.20 | 99.00 | | | |
| | | 1 | 18.00 | 4.50 | 0.20 | 16.20 | | | |
| | | | | | | **135.20** | **Cum** | **69.06** | **9,336.91** |
| 48 | KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147) | | | | | | | | |
| | Basic rate | 6.00 | | | | | | | |
| | 6% AW | 0.36 | | | | | | | |
| | **Sub Total** | **6.36** | | | | | | | |
| | | 1 | 20.00 | 5.00 | | 100.00 | | | |
| | | 1 | 110.00 | 4.50 | | 495.00 | | | |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 18.00 | 4.50 | | 81.00 | | | |
| | | | | | | **676.00** | **Sqm** | **6.36** | **4,299.36** |
| 49 | Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.( I No-20.5,P No-153) | | | | | | | | |
| | Basic rate | 1882.00 | | | | | | | |
| | 6% AW | 112.92 | | | | | | | |
| | **Sub Total** | **1994.92** | | | | | | | |
| | | 1 | 20.00 | 2.00 | 0.10 | 4.00 | | | |
| | | 1 | 110.00 | 2.00 | 0.10 | 22.00 | | | |
| | | 1 | 18.00 | 2.00 | 0.10 | 3.60 | | | |
| | | | | | | **29.60** | **Cum** | **1994.92** | **59,049.63** |
| 50 | KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:4:8** with OPC @ 180kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum, in foundation mechanically mixed, placed in foundation and not laid in layers not exceeding 15cms thick, well compacted including cost of all materials, labour, HOM curing, complete as per specifications. (P.No-13 ,I No-4.3) | | | | | | | | |
| | Basic rate | 5102.00 | | | | | | | |
| | 6% AW | 306.12 | | | | | | | |
| | **Sub Total** | **5408.12** | | | | | | | |
| | | 1 | 20.00 | 5.00 | 0.15 | 15.00 | | | |
| | | 1 | 110.00 | 4.50 | 0.15 | 74.25 | | | |
| | | 1 | 18.00 | 4.50 | 0.15 | 12.15 | | | |
| | | | | | | **101.40** | **Cum** | **5408.12** | **548383.37** |
| 51 | Providing and laying in position **plain cement concrete of mix M20** with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.13, I.No. 4.5) | | | | | | | | |
| | Basic rate | 5328.00 | | | | | | | |
| | 6% AW | 319.68 | | | | | | | |
| | **Sub Total** | **5647.68** | | | | | | | |
| | **CC Road** | | | | | | | | |
| | | 1 | 20.00 | 5.00 | 0.13 | 13.00 | | | |
| | | 1 | 110.00 | 4.50 | 0.13 | 64.35 | | | |
| | | 1 | 18.00 | 4.50 | 0.13 | 10.53 | | | |
| | | | | | | **87.88** | **Cum** | **5647.68** | **496318.12** |
| 52 | **Vaccum De- writing** with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7) | | | | | | | | |
| | Basic rate | 68.00 | | | | | | | |
| | 6% AW | 4.08 | | | | | | | |
| | **Sub Total** | **72.08** | | | | | | | |
| | **CC Road** | | | | | | | | |
| | | 1 | 20.00 | 5.00 | | 100.00 | | | |
| | | 1 | 110.00 | 4.50 | | 495.00 | | | |
| | | 1 | 18.00 | 4.50 | | 81.00 | | | |
| | | | | | | **676.00** | **Sqm** | **72.08** | **48,726.08** |

| Sl No | Description of Items | No | Length | Width | Depth | Quantity | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 53 | **Providing groove cutting** for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement. (Page No 176 Item No 22.8.1) | | | | | | | | |
| | Basic rate | 135.00 | | | | | | | |
| | 6% AW | 8.10 | | | | | | | |
| | **Sub Total** | **143.10** | | | | | | | |
| | **CC Road** | 2 | 5.00 | | | 10.00 | | | |
| | | 9 | 4.50 | | | 40.50 | | | |
| | | 2 | 4.50 | | | 9.00 | | | |
| | | | | | | **49.50** | **Rmt** | **143.10** | **7,083.45** |
| | | | | | | | | **Total Construction Cost** | **8934455.14** |
| | | | | | | | | **Towards GST@ 12% For Sr2018-19** | **964448.41** |
| | | | | | | | | **Utility Shifting,Miscellaneous and Rounding off** | **1,096.45** |
| | | | | | | | | **GRAND TOTAL** | **9900000.00** |

**(In words : Ninty Nine Lakhs Only)**

**Certificate**

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, Issue rates and Data Rates

Assistant Engineer
Ward no. 06
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Project division
BBMP Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer,
Yelahnka Project division
BBMP Bangalore